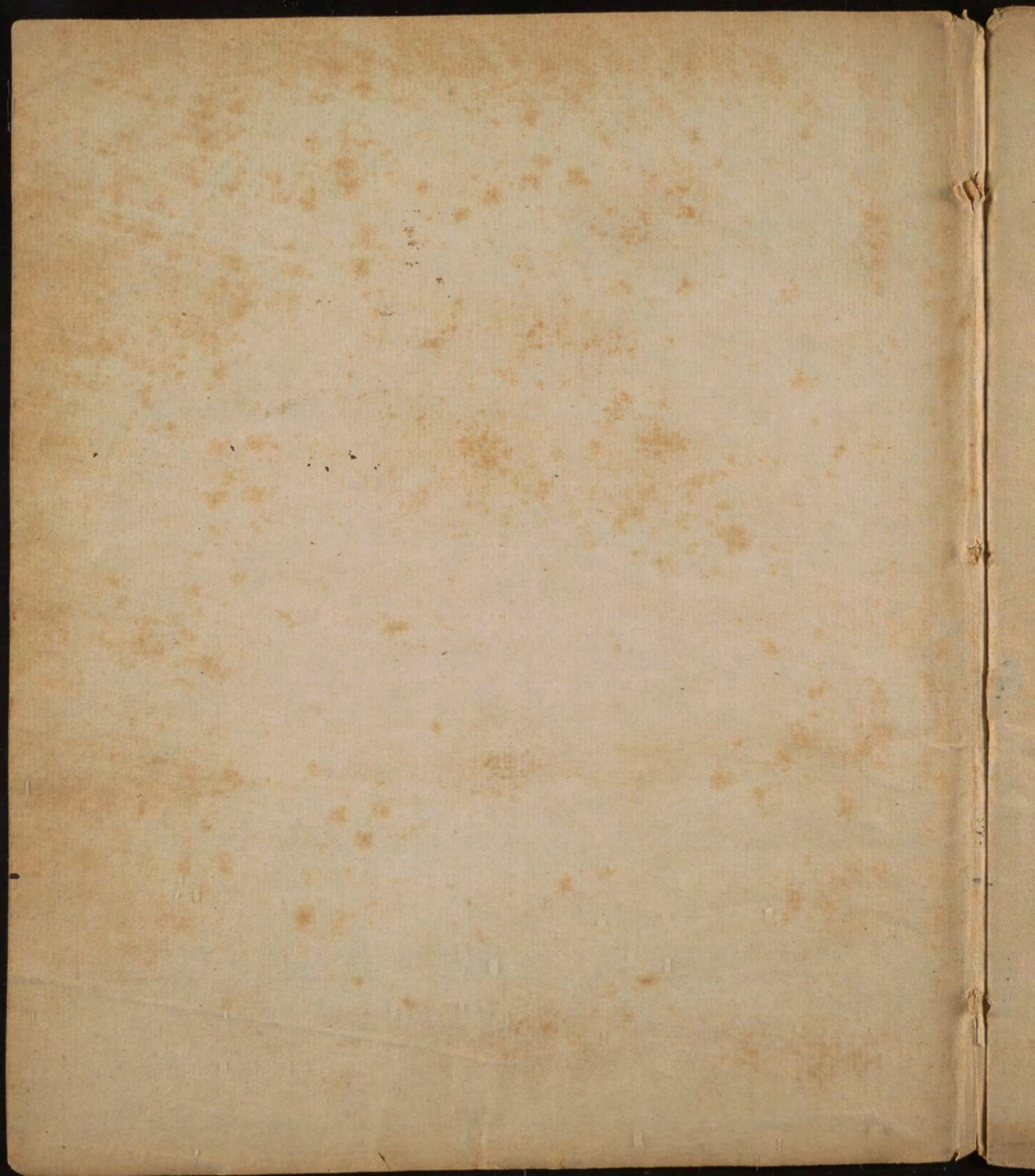


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Hearing cont:
~~of the mind p. 103~~
~~of memory 418~~
~~of imagination 419.~~
~~of the Passions 428~~
~~of the moral faculties 430.~~

[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

10

we hear imperfectly when we ~~listen~~
~~or sing - or~~ ~~to~~ or speak in a very
 acute or ~~sharp~~ shrill tone of voice - for
 the air which is expelled with great
 force thro' the glottis (rendered extremely
 narrow by the acuteness of the voice) is
 thrown into the tympanum thro' the
 Eustachian tube
~~expelled~~ in ~~such~~ so large a quantity
 & with such force as to disturb the
 harmony between the external & inter-
 nal air, and to protrude the membrana
 tympani outwards. ~~It is~~ ~~also~~ ~~said~~ ~~that~~ the famous Roman Orator
 Cicero frequently lost
 the tone of his own voice by speaking
 so loud that he used to cry like an
 old woman, nor was he cured of

[Faint, illegible handwriting in cursive script, likely a letter or journal entry. The text is written in brown ink on aged, yellowed paper.]

³⁴⁰ ³⁹⁰ ²
this fault in speaking until he
carried a servant with him who used
to sound a certain tone upon a
pipe to which he always accompa-
-nied his voice. —

we hear imperfectly when we
yawn - owing to the entrance of air
thereby being obstructed into the Eustach-
-ian tube. —

It is happy for us that sounds are
unlike light in not being obstructed
upon us at all times. were this
the case, we should hear but one of
them at once, and lose all the know-
-ledge & pleasure we derive from their
Variety & Succession. —

we have ~~the~~ ³⁹¹ 3
~~but~~ but one sensation from
~~two~~ two impressions made upon
the organs of hearing. The reason is
obvious. ~~The impressions~~ ^{The impressions} are made
upon the same spot in each ear,
& ~~our~~ ^{our} minds - ~~which~~
which are single, will receive but
one sensation at once. —

Dr. Reid has expressed a doubt
whether a musical ear does not
depend upon some peculiarity of
organization in that organ. I have
no doubt - upon this subject, - for
I believe it does not, - on the contrary
I believe th the late Dr. Gregory that

21022

✓ It is agreeable to observe the progress
~~of~~ of the pleasures we derive from
our ears in the different stages of
life. Children are pleased with simple
sounds of any kind. young people
delight in melody, that is in ^{an agreeable} ~~single~~
^{succession of} ~~consonant~~ tones - while persons more
advanced in life ~~only~~ can enjoy pleasure
only from harmony, that is, tones of
different kinds so combined, as to produce
a variety of impression upon the organs
of hearing. The same changes take place

in the objects of taste in the different stages
of life. It is remarkable the pleasure derived from
sweet sounds is universal. who ever heard the singing
of birds without being delighted with it? now the notes of
these birds are all original & nature
all birds use scalloped only - they do not reach to harmony.

Union of pleasure with certain musical
Impressions upon the ear - But this
pleasure is greatly heightened by those im-
pressions being associated with certain
words, situations, or thoughts, ~~as~~ with which

every human creature has an innate
~~the~~ capacity of acquiring a knowledge
 of musical sounds. It is true some per-
 sons have more genius or taste for
 music than others - and so have
 some even more genius or taste
 for mathematics than others, but
 men who want this genius or taste
 for mathematical learning possess
 from nature a capacity for it - and
 often from ~~close~~ ^{close} application to it
 supply the defect of genius or taste
 by great attainments in that ~~valuable~~
 useful species of knowledge. ✓

(a) The use of hearing is ^{next to} one of the
 vision in its importance & uses.
 Life deprived of this use says Le Cat is a
 kind of premature death. (B)

our minds were affected, the first
time we felt them.

The sense of ^{hearing} ~~vision~~ is next to
vision in its importance & Uses.
Life, deprived of this sense says
Le Cat is a kind of premature death.

go to 5th page

in hearing upon animals

that is, that the senses are the
avenues of thought, and that with-
-out them, we ~~shall~~ ^{should} be reduced
to the condition, not of the brutes,
but below them; we ~~shall~~ ^{should}
~~remain in existence with the trees of~~
~~the forest~~ be but little more than

see Thoms

Thus a sudden flash of lightning
often excites ^{temporary} vision ^{or} hearing in the
eyes & ears of persons who have
long been blind blind & deaf. - Thus
too terror, often excites for ~~the~~ a while
the torpid limbs of paralytic patients.
- Suffering ^{acts like} in the lightning, & terror
in the above cases, upon the paralytic
sense of duty. ~~in the man who has lost~~
~~all~~ return to p 433.

~~he would have known no more of a~~
~~God than a brute dog, or a horse, return~~
to p 433

~~the~~ 5
The sense of hearing is rendered more acute,
and prolonged,

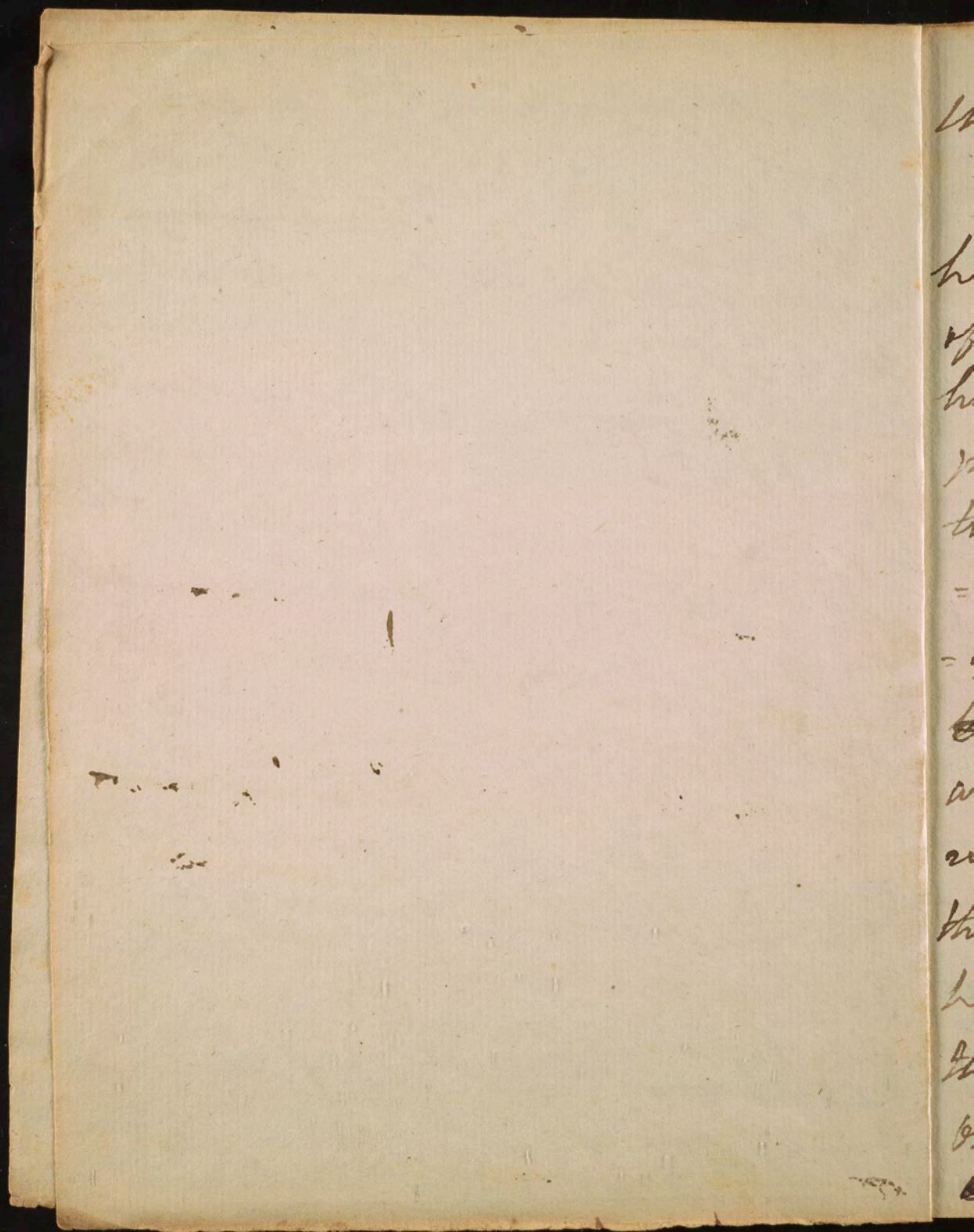
1 By preventing an undue accumulation
of wax in it, also of dust which sometimes
insinuates into the meatus auditorius. This
is to be done by wiping it daily with a
wet cloth. 2 By elevating the external ear, &
placing the hand behind it.

3 By ^{shutting the eyes and} accustoming the ear to distinguish
certain sounds - such as ~~those~~ ^{those} which
are emitted by striking different kinds of wood
and metals, and the weight or figure of
each of them. 4 By an Acoustic.

The wonderful achievements of the
sense of hearing in persons who have lost their
eye show the perfection ^{of} which this sense
is capable. [Recall the fact of the two
Doctors mentioned in the lectures upon
animal life. [There is a blind young man

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in this city who can tell the ~~quality~~ of a horse by hearing the motions of his feet in trotting thro' our streets. ^{in instance} of a similar degree of Acuteness in the sense of hearing. After the loss of sight has been noticed by Spalanzani in a bat. He first put out its eyes, & then let it loose in a room. In flying thro' it, it always avoided obstacles of all kinds and turned when it came near a wall ^{probably} owing to the difference of sounds emitted by its wings from the reaction of the wall upon the air. That this perception was in the ears of the bat Spalanzani proved by previously destroying its senses of taste & smell, without producing any change in its retreat from the wall. He finally destroyed its sense of hearing, the consequence of which was it lost its power of perceiving its proximity to



7 8

the wall, and fell against to the floor.

Perfection or Acuteness of hearing is highly important & useful in many of the pursuits and professions of men. The ^{the sailor} human and the warrior have often profited by it. ~~But~~ much might added to our knowledge in medicine by extending the powers of this sense - particularly by in ~~the~~ distinguishing the ~~pitch of~~ ^{the} ~~voice~~ difference and changes in the voice and speech, and in the voices made by ^{and all the different notes of pain.} ~~the~~ ^{the} ~~respiration in many diseases~~ ^{an acute sense} of the practice of surgery - ~~the extension of~~ hearing would be useful in distinguishing the grating of pieces of bones upon each other, and the noise of the blood in ~~the~~ ^{our} ~~researches~~ ^{researches} for a

It is that in a future state of existence, new
 senses will be opened for the acquisition
 of knowledge - but if the ^{capacity} ~~capacities~~ for
 acquiring knowledge by the five senses we
 possess, may be so extended & improved in
 the manner that has been mentioned,
 the addition of new senses will be un-
 necessary for that purpose. Should the sense
 of smell be so increased in its power as to dis-
 tinguish the composition of bodies by barely
 handling them - Should the sense of taste be-
 come capable of detecting the component parts
 of the air - Should the sense of smell be so
 refined so acute as to receive pleasure from
 the odors of a distant country - Should the eye
 become so ^{improved} ~~perfect~~ in its strength as to
 discover the ~~particular~~ ^{component parts} of all
~~the planets & stars~~ ^{of the rays of the sun} ~~to which it belongs~~
 and should the ear become ^{so} ~~perfect~~

Stone in the bladder. ~~We have not~~
~~thought of the~~ ~~physician~~ ~~and~~
~~both~~ in a profession which requires
such an extent of capacity & knowledge
as medicine, the cultivation of all the
senses in the manner that has been
mentioned should form a part of a medi-
cal education. In a sick room - we
should endeavour to be all touch - all
taste - all smell - all eye & all ear -
in order that we may be ^{say} all mind,
for our minds as I shall presently
are the products of impressions upon
our senses. —

I shall dismiss this part of our subject,
by taking notice of an opinion which has been
held by some Christian philosophers, and that
V

10.

We have thus finished the history of the individual Senses of touch - taste - smelling - feeling and hearing, and have mentioned the Advantages we derive from each of them. It remains that I take notice of the Advantages we derive from the combined Operation or Actions of them all, and I shall ^{repeat} ~~show~~ they are the ^{Surfaces} ~~Advantages~~ upon which impressions act in the production of Animal life. Air by ^{its} ~~the~~ Action upon the sense of touch extended ~~not only~~ to the lungs, solid bodies by this Action

✓ 2 We are indebted to our senses
for an immense mass of corporeal
pleasure, for an amount of which
I refer you to my printed lecture
upon the pleasures of the senses. &
particularly for ^{this} ~~the~~ its proximate
cause which you will find in the
427 page of the volume of introductory
letter. A knowledge of this cause will
enable you more readily to understand
the proximate cause of pain which
will be taken notice of in our patho-
-logy. —

upon the tongue, - Does by their
 impression upon the nose, light
 by its action upon the eye - and
 sounds by their impression upon
 the ear, form a large proportion
 of the stimuli ~~for~~ ^{to} which we owe
 our ^{animal} existence. As we love life &
 all its animal enjoyments let us
 therefore [^] duly appreciate our senses. ^v But
 $\frac{1}{2}$ we are indebted to our senses for
 our enjoyments, and for ^{all} the advantages
 we derive from our intellectual,
 moral and social existence. Without
 our senses, we should be reduced to
 the condition, not of Brutes, but

but below them, ~~but below them,~~
 - we should be reduced in point of
 intelligence, to a level with the logs
 and stones. ~~As soon as~~ It is true in
 the absence of sensation, emotions might
 still be excited in our bodies by certain
 external and internal impressions, but
 these emotions would produce no ideas,
 for ideas are the offspring of previous
 sensation, and without senses there could
 be no sensation. As well might ^I ~~we~~ at-
 -tempt to excite ~~there~~ an idea, or that
 in this desk by striking it with my
 hand, as ~~attempt~~ expect to excite a
 single idea or thought in the mind
 when deprived of the avenues of the

V "Nihil" ~~repeat it again~~ "Nihil
est in intellectu, quod non prius
fuit in sensu". is as true as that we
did not make ourselves. As we value
our intellectual - moral & social existence
therefore let us appreciate our senses.

I now to it. It is agreeable to con-
 -template the gradual ^{order in which} ~~influence~~ of the
 impressions act upon the
 Senses in evolving the mind. The first
 impressions upon the brain the first
 of the ^{mind} ~~brain~~, are made thro' the
 medium of the sense of touch. -
 - hence from long habit, it becomes
^{one of} the most perfect of all the Senses.
 The impressions upon this sense I
 have said begin in the womb, &
 hence as I shall say presently, the
 origin of Instinct. ~~The~~ It is further
 stimulated by the air acting upon
 the lungs, and the skin in a new
 born infant. The smell of its mother
 milk probably forms the next stimulus,
 - ~~hence next comes~~ the taste of

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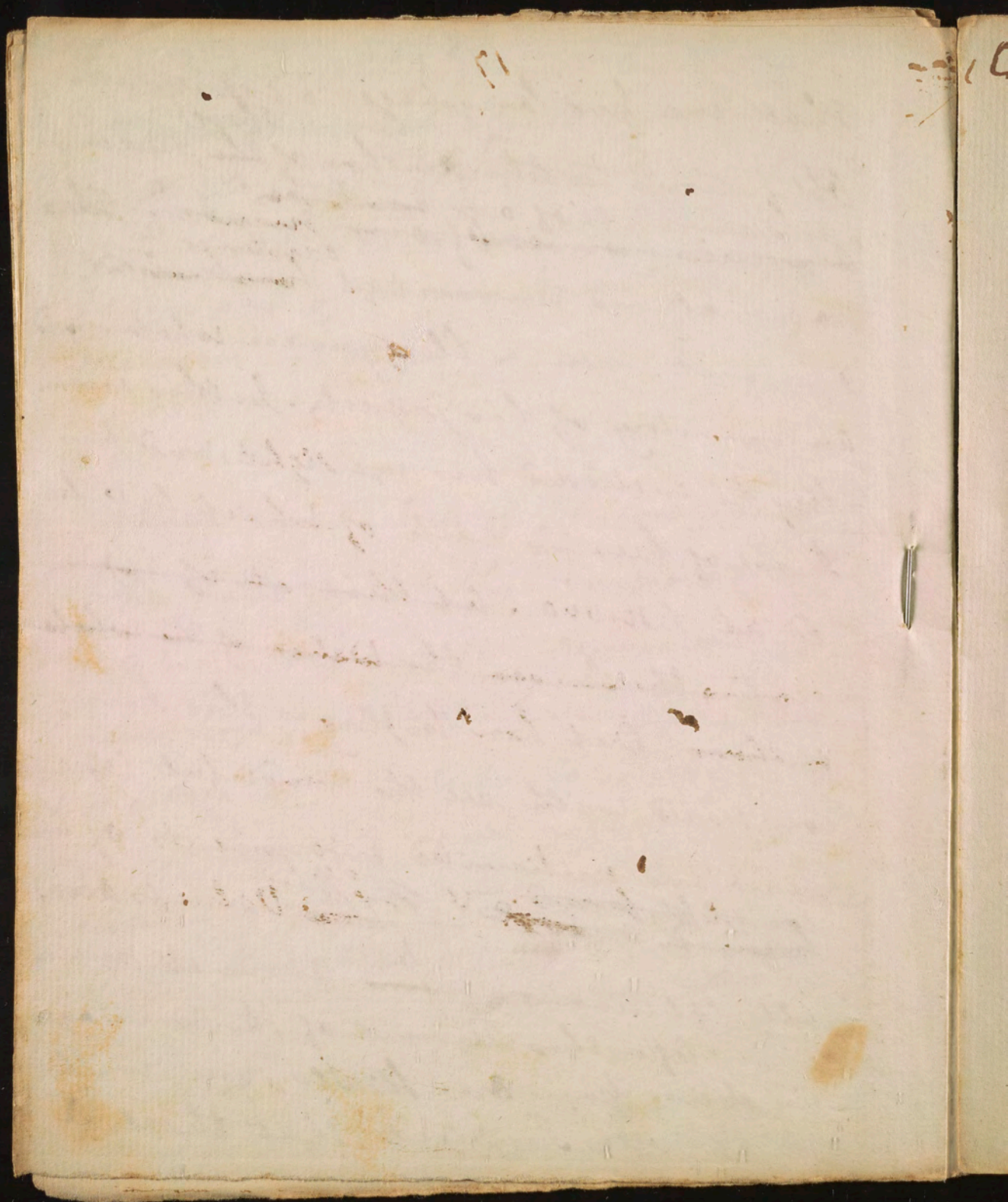
15
this with ~~the~~ ^{the} upon its tongue
constitutes the next stimulus, funds
them out upon its ears, and light
with all the objects of vision ^{seem to} ~~present~~
afford the last stimulus in one
-ring the faculties ^{of} the mind. The
more early, and the more constantly
these impressions act, the more the
mind will be evolved, and vice versa,
the fewer and the more feeble the
impressions are upon the senses, the
less ^{there will be} ~~will be~~ of mind. ^{Even} the diminution
of the number or activity of the senses
is followed by a diminution of mind;
this is most obvious in ^{which is always}
-ness the loss of hearing, ^{is} attended
with a decay of intellect. where

V mind completely formed by the con-
~~tinued~~ ~~continued~~ -bined operations
of all the Senses? { Dear Channels
of our exalted rank in the Scale of
Beings, and of all our knowledge and
pleasures - your

Who have existed Sects of philosophers
who have denied their importance
and usefulness in the acquisition of
knowledge, and who have ^{endeavored} ~~to~~ ~~to~~
to persuade us into general Scepticism
by teaching us to doubt or disbelieve the
testimony of our Senses, and to reject
all the knowledge we acquire by them.
~~go to p 445~~ ~~Q~~

shall we find language to express our
 Obligations to the ^{these} Author of the previous
 instruments of our ~~sank~~ ^{existence} ~~existence~~ ^{these}
 rational and immortal ~~beings~~ ^{existence} & I
 came out with a Clergyman who composed
 an inventory of his property. In this inven-
 -tory he included his eye sight, and his
 sense of hearing each of which he valu-
 -ed at £10,000. At this rate of appra-
 -ising the ~~senses~~ the Value of the whole
 of them But how trifling is this sum
 compared with all the wonderful capa-
 -cities and unlimited enjoyments of a
~~completely formed~~ ^{their} ~~human~~ ^{Value is above} ~~being~~ ^{all}
 all ^{all} calculations [&] and above all price.

After this Account of the Advantages
 we derive from our senses, you will
 bear with surprise, that there



(C) There has always been among men
 the same disposition to usurpation in
 science that there is of power. The
 philosophers who have decried the
 testimony and uses of our senses in
 acquiring knowledge have ^{extolled} ~~exalted~~
 reason exclusively, at this expense,
 thereby meaning to teach the bulk
 of mankind who possess senses only
 that they are unfit to think for
 themselves, and that it belonged to the
 men of reason only to govern the opini-
 -ons of the world.

We hear much of the Craft
 of the Church, but I am satisfied there
 is more Craft in philosophy, and I am
 sure there never existed a set of

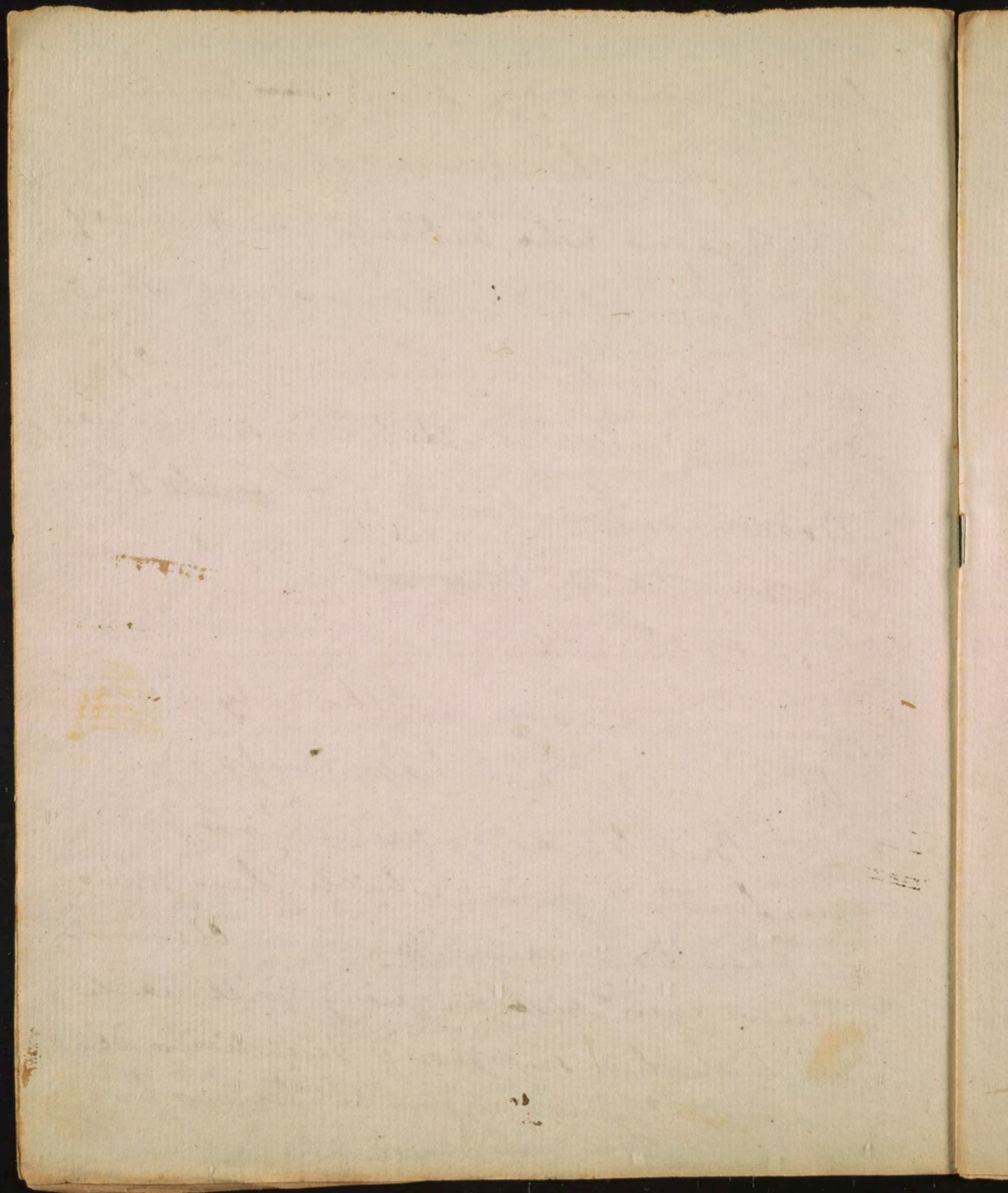
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✓ I have barely mentioned the absurdities
& nonsense of some of the opinions of
the ~~opinions~~ of those philosophers ^{here quoted} respec-
-ting the Senses. I shall enumerate a few
more of them.

~~They~~ They have taught, that our senses
decide us when we speak of heat or cold,
light or sound, - for that they are all four
mere perceptions of the mind, & that they
have no existence in nature - They have
taught further that ^{our} ideas are not the
images of external objects, but creations
of the mind wholly unconnected with
the objects that excite them - Nay, they
have gone further, - and have taught
that there is no such thing as matter
independent of ideas, and that all the ^{matter}
ideas the earth - the sun - ^{the} moon - even
our own flesh which we feel have
no real existence, but are ^{illusions of the Senses.} all more

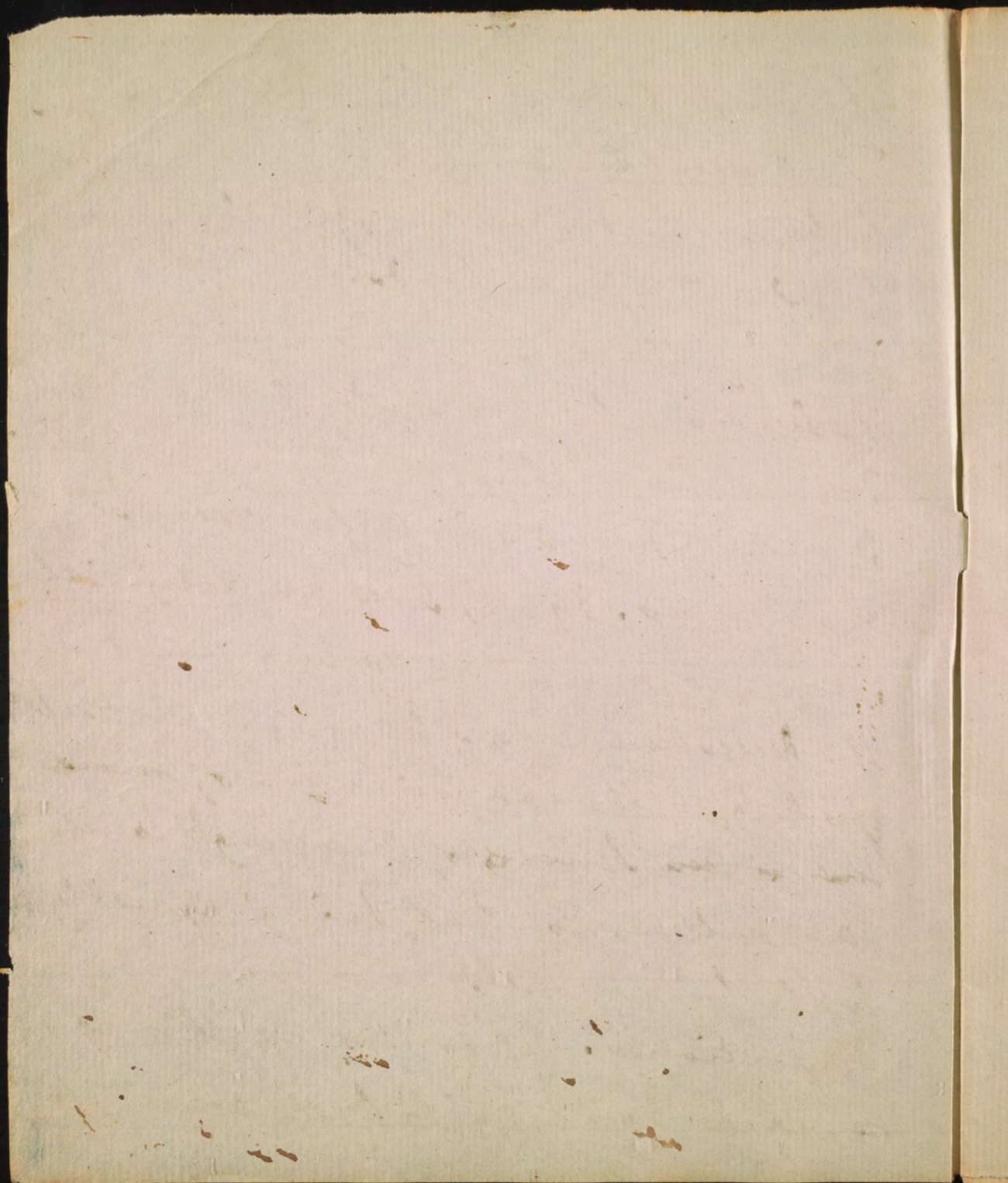
18
Christians - may I will ^{add} ~~say~~ further,
I am sure there never existed a Set
of Pagans who believed in one half
the Absurdities and nonsense which
are inculcated in the writings of
Hume, Voltaire, Helvetius, Mirabeau,
Godwin, Tom Paine and ^{many} ~~all the~~ others
~~Philosophical writers~~ who have ad-
-vocated the perfection and divinity of
human Reason as the only guide
to knowledge and happiness. V

But let us inquire how far
our Senses against which these philo-
-sophers have raised so much clamor,
deceive us. This inquiry will teach
us that their supposed Deceptions de-
-pend wholly, not upon the Senses, but

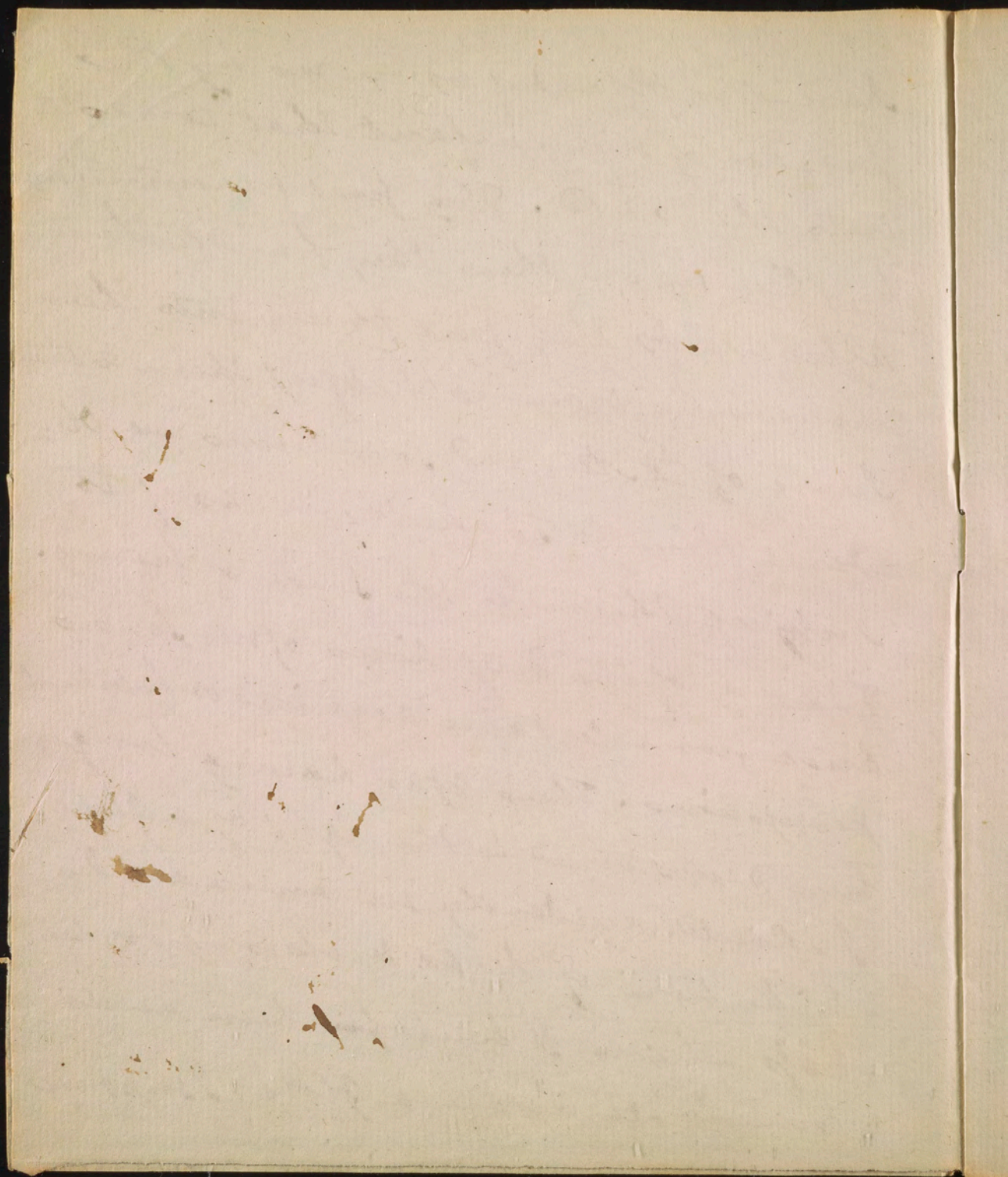


the imperfection of human reason. The appearances which are supposed to be prove the fallacy of the senses may be reduced to four heads.

1 Many things are called deceptions of the senses which are false conclusions drawn from their testimony, and founded upon the imperfect exercise of our Senses. 29. If I see an artificial rose, and presume it to be a real one, the deception arises from my not ^{obj-}ecting ^{it} to the examination of ~~some~~ ^{the} Senses of smelling & touch as well as to that ^{of} seeing, agreeably to the laws of the senses formerly mentioned. It is strange this remark has been so little attended to,

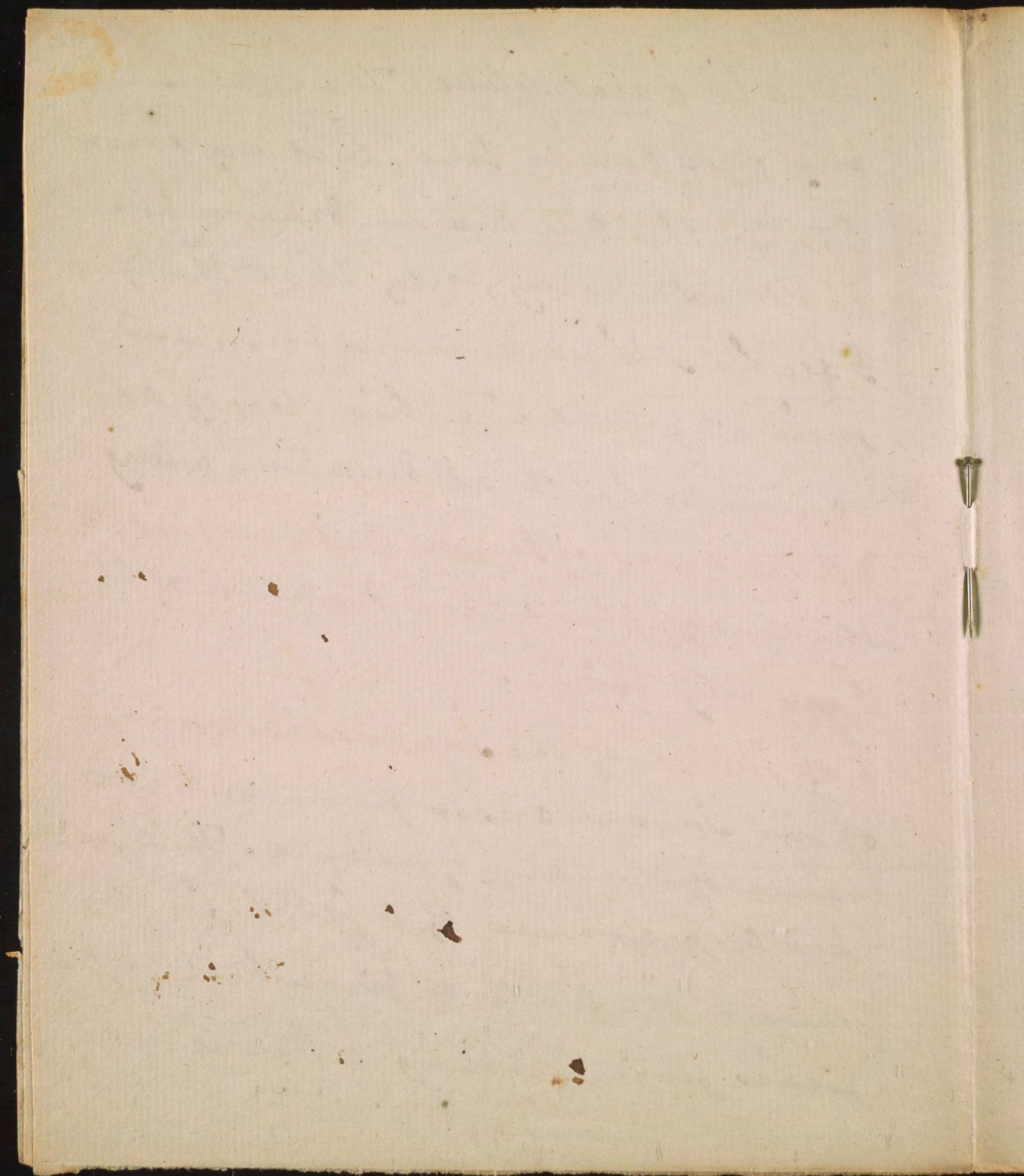


Since it is obtruded upon us by the
 practice of every infant that comes
 into the world. They first examine things
 by their eyes, - then they handle them,
 afterwards they put them into their
 mouths in order to subject them to the
 sense of taste, and sometimes use ob-
 -serve them to shake them as if to
 subject them to the sense of hearing.
 2. Many of the Deceptions of our Senses
 arise from certain acquired or habitual
 perceptions. Thus after having long
 been accustomed to the sight of a globe,
 I should accidentally see an exact dis-
 -tribution of light & colors upon can-
 -vass which I have ~~for~~ been accus-
 -tomed to see upon a globe, I suppose

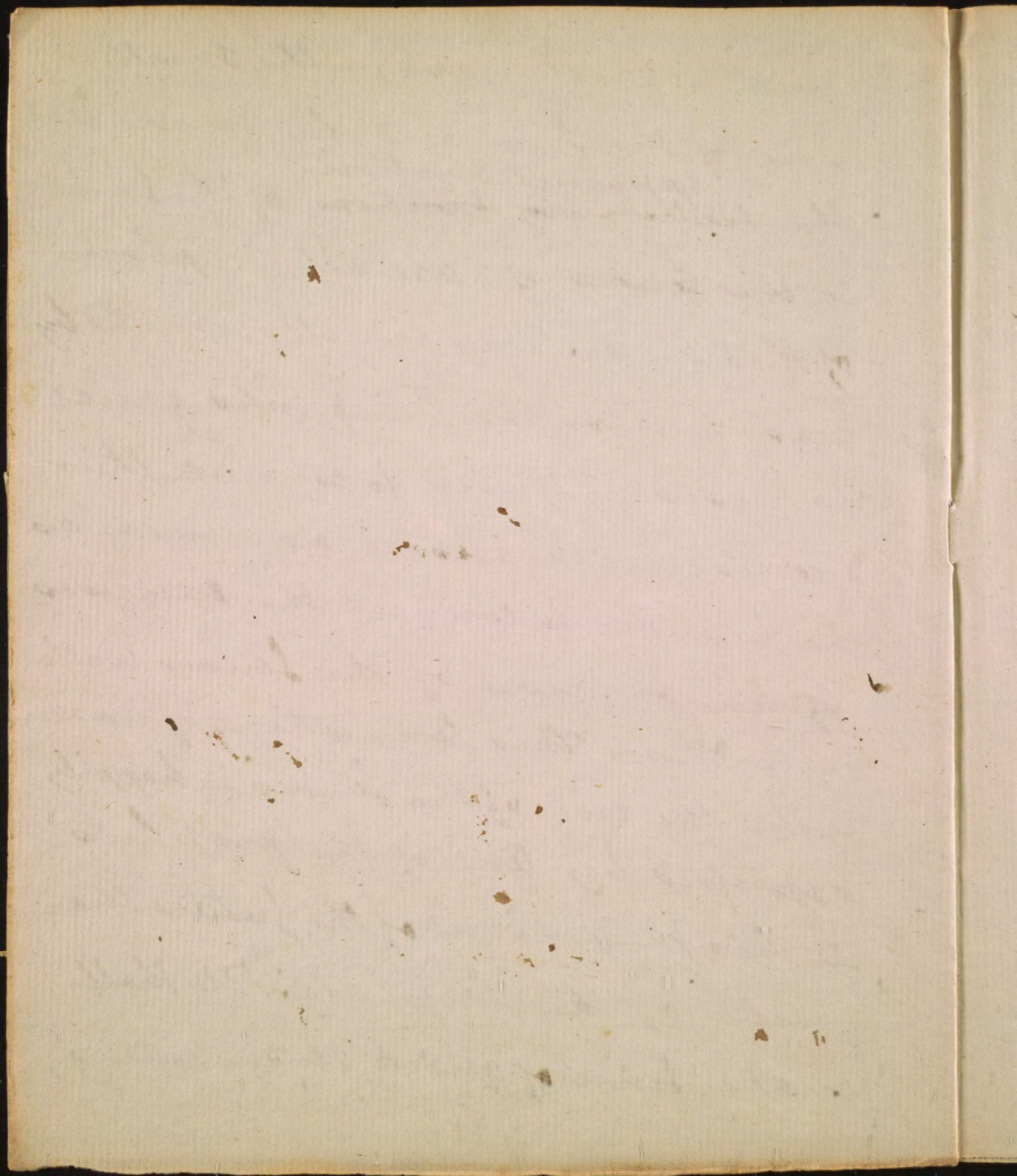


it to be a real globe. The testimony of
 my eyes here is true, but my error
 lies in the conclusion drawn from
 that testimony, viz that the Object
 I see has three dimensions, and a
 spherical figure. To this class of ac-
 -quired or habitual deceptions belong
 all the errors of senses with respect to
 the magnitude and distance of the
 heavenly bodies.

A 3rd source of the supposed deceptions
 of our senses arises from our igno-
 -rance of the laws of nature. The croo-
 -ked appearance of a stick in the
 water - the circle of fire which ap-
 -pears from burning a living coal



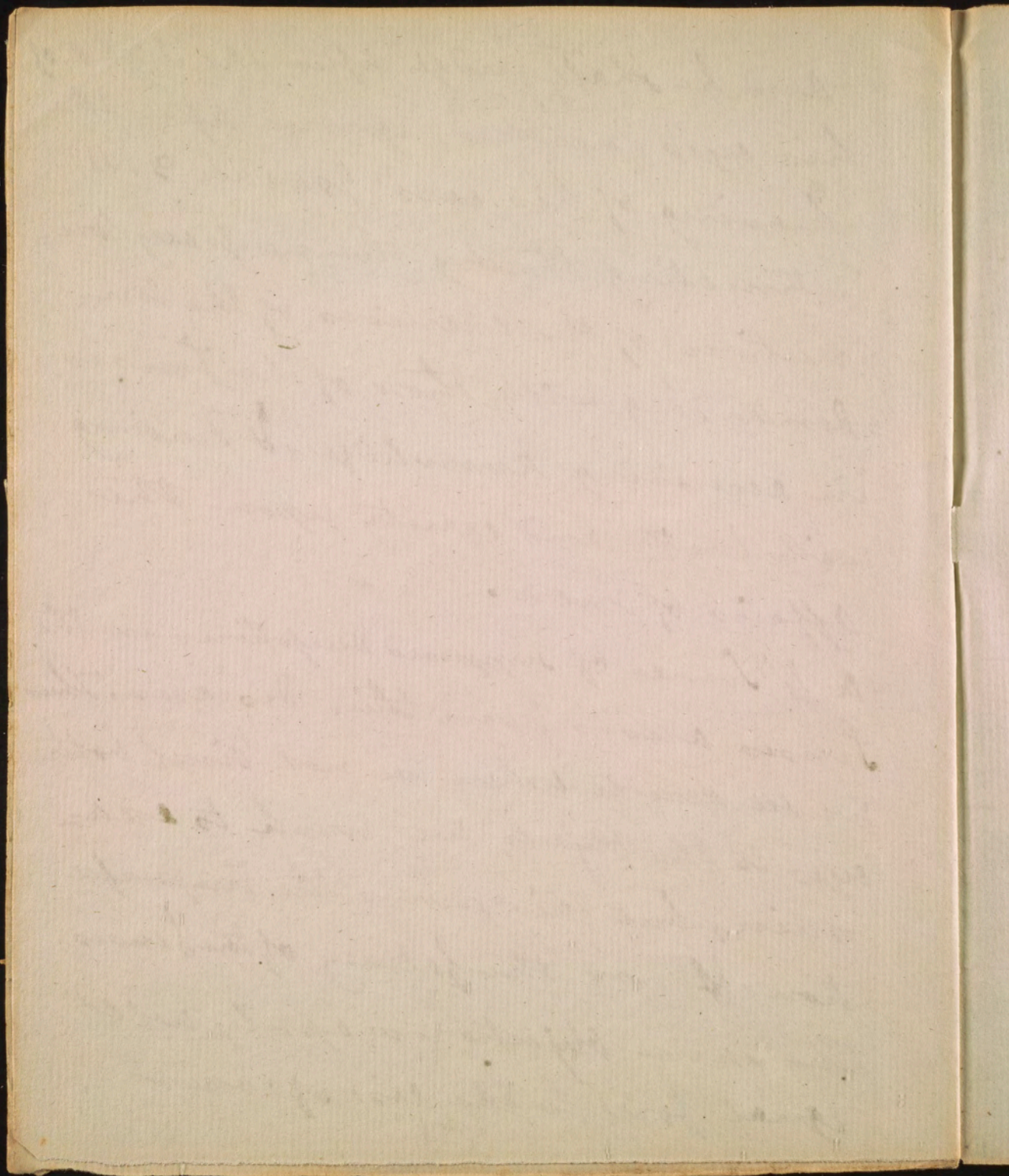
with a quick hand, - the small
 size of the Sun and the moon, &
 the ^{apparent motion} ~~stationary position~~ of the Sun
~~in the center of~~ are all deceptions
 of this kind. They are all corrected by
 reason, for the Being who gave
 us senses intended to connect their
 exercise with reason as much as
 he intended to connect the exercises
 of two or more of the Senses with
 each other. This connection of reason
 with the use of the senses is happily
 expressed by one of the prophets
 in his prediction of the future cha-
 -racter of the Messiah. "He shall
 make him of quick understanding,



221
And he shall ^{not} judge after the sight of
his eyes, neither reprove after the
hearing of his ears" Isaiah 3. 11
intimating thereby the necessary con-
=nection of the exercises of the Un-
=derstanding with those of the Senses
in acquiring knowledge, & judging
with truth and equity upon the
Affairs of men.

A 4th Source of supposed deceptions in the
Senses arises from their Diseases. Thus
we see double when we not direct both
eyes to the Objects we wish to exa-
=mine, but this proves the imperfec-
=tion, & not the fallacy of the Senses.

The same Objections apply with
equal force to the use of our

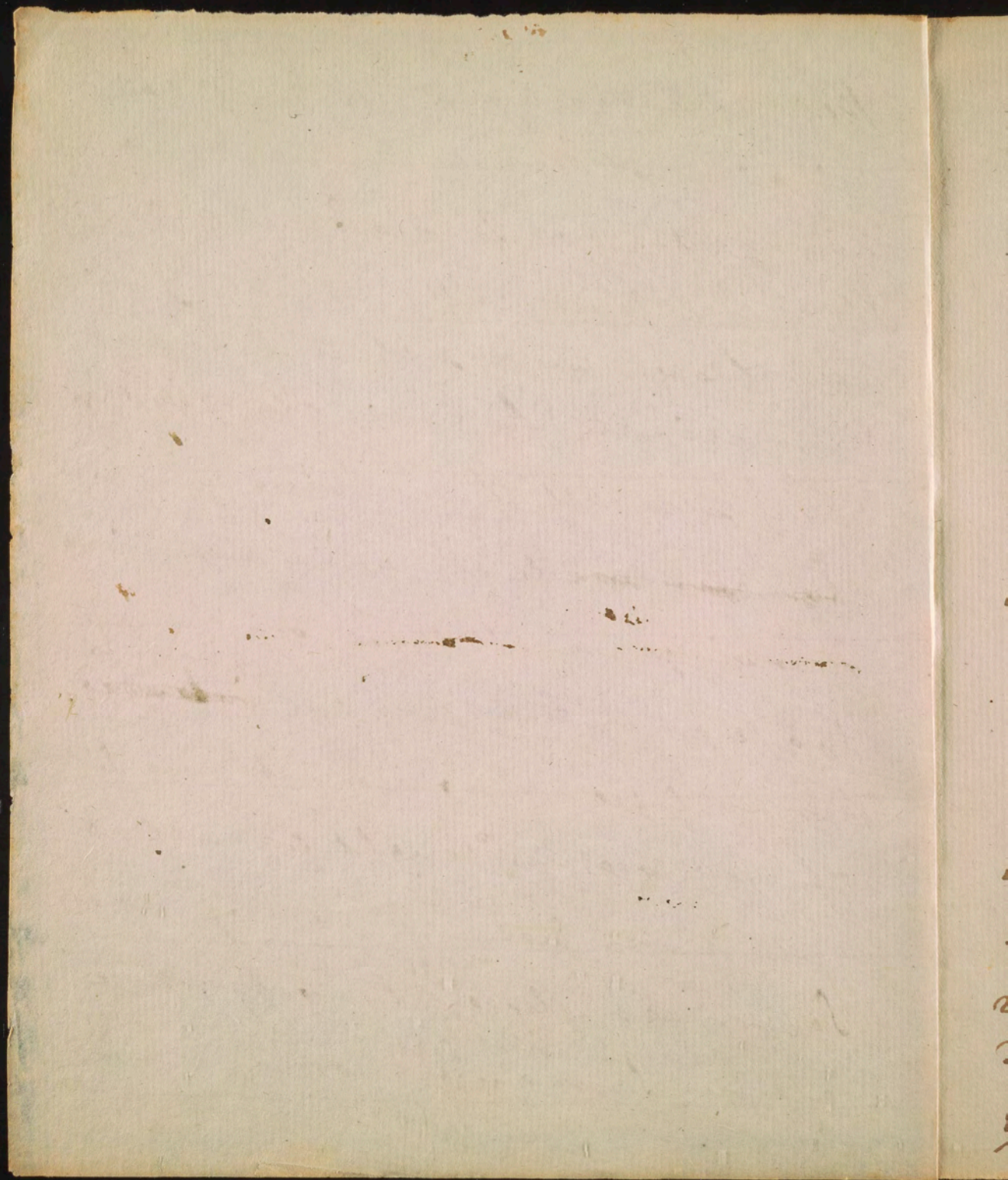


memories, imaginations & Under-
standings, for they are all equally
liable to fallacy from disease.

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Besides the two channels for obtaining knowledge which have been named, viz our senses & our reason, there is a third called testimony which acts through what I shall hereafter denominate the principle of faith.

They were all three as much intended ~~for our use~~ to aid us in acquiring knowledge; as all the senses, or as two eyes, or two ears are ^{given to} ~~intended~~ as as Capacities of impressions, & the philosopher might as well advise us to destroy a part of our senses, as rely exclusively upon all our senses - or upon our



reasons, or upon testimony for the
 acquisition of knowledge. These
 three sources are not only necessary
 for that purpose, but they all three
~~too~~ act involuntarily upon our
 minds in producing conviction,
 or acts of our judgment. I shall
 illustrate each of them. I now see
 a number of
~~between 30 & 400 young~~ gentlemen
 with attention
 assembled in this room listening
 to what I am now delivering. This
 is an act of my sense of vision. It
 is an ^{involuntary} ~~involuntary~~ as the pulsation of
 my heart.

2 I am sure you cannot occupy
 your seats in this room, & seats in

55
✓ In asserting to this report I obey
a law of my nature, and were I say
I disbelieved it, you would justly
call my veracity in question, or sup-
-pose my mind not to be in a sound
state. —

year our houses ²⁸
~~The Antislavery House~~ at the same
time. This is an act of my reason,
and I cannot more resist a belief of
it than I can the evidence of my
Vision in the former case. -

3 I believe there exists in the State of
Massachusetts a town called Boston. It
~~has~~ ^{I have} it is true never seen it, but so
many people have told me that they
~~had~~ were born in it, or lived in
it, or passed thro' it, that I am com-
-pelled ^{in spite of myself} to believe there is such a town
~~whether I do~~ ^{in spite of myself, and as}
with as much ^{certainty} confidence as I do
my eyes and my reason in the
facts I have just now mentioned. ✓

24.304

I have arisen from this act of dis-
 -organization of the works of the
 nature. Author of ~~Authors~~ Spectres, and
 Apparitions would have been un-
 -known had the necessary connection
 of the Persons alone been called in to decide
 upon them. For example - Ghosts it
 has been said have been seen & heard,
 but never handled. now I said formerly
 touch is absolutely necessary to the cor-
 -roboration of seeing & hearing. ^{But 2^d} ~~against~~ a
 belief in Ghosts is contrary to reason
 for a material being cannot see an
 immaterial being, and ^{one} ~~3^d~~ ^{it is} a belief
 in them is contrary to the laws of
 testimony, ^{which} ~~for this~~ requires the concu-
 -rrence of several witnesses. now Ghosts or
 Spirits are generally seen by one person
 only, and that person - generally under

29
Let us therefore always recollect ¹²
the dependance of the Senses upon each
Other of which I mentioned so many
instances formerly. & 2 the original,
natural & necessary connection of the
Senses, reason & testimony with
each Other for the purpose of acquiring
correct knowledge upon all ^{Subjects.} ~~knowledge.~~
^{Union of the Senses, reason and}
This ~~is the order~~ established by Heaven
between with each Other, and of all the
Senses with reason and testimony, was
established by our Creator as the only
certain means of ^{our} discovering truth.
— In the language of the marriage Ser-
=vice therefore, I ^{thus} boldly proclaim "What
God has joined together, let no man
put asunder". — A thousand errors

The influence of great terror, or a
strong predisposition to believe in
ghosts from a defective education.

